

A luminous structural medium for windows, walls, partitions.

7c
2

TEMPREX GLASS STRUCTURAL BLOCKS

REG. U S. PAT. OFF

livingwall

THE WALL THAT
ACTUALLY GLOWS
WITH LIGHT!!!



LIVINGWALL answers the fundamental architectural need for a luminous glass partition or window wall that functions as an integral part of the building structure . . . yet may readily be illuminated from within. Made of TEMPREX glass and aluminum, LIVINGWALL is fire-resistant, sound-proof, fully insulated and virtually unbreakable. As interior partitions they may be free standing, ceiling high, or railings; all erection is "dry wall" without mortar permitting alterations to be effected with 100% reclaiming of the original blocks. The inside panels of the LIVINGWALL are easily removable for display. The outside panels are permanently sealed in at the factory to provide an air and watertight joint.

HOMES

OFFICES

STORES

FACTORIES

SCHOOLS

CHURCHES

TEMPREX Structural Blocks are self supporting units assembled economically and quickly with no skilled labor required. A simple interlocking key joins the Blocks securely together both vertically and horizontally resulting in a rigid sturdy wall structure. For exterior walls a caulking space $\frac{1}{2}$ " wide by $\frac{7}{16}$ " deep is provided when Blocks are joined.

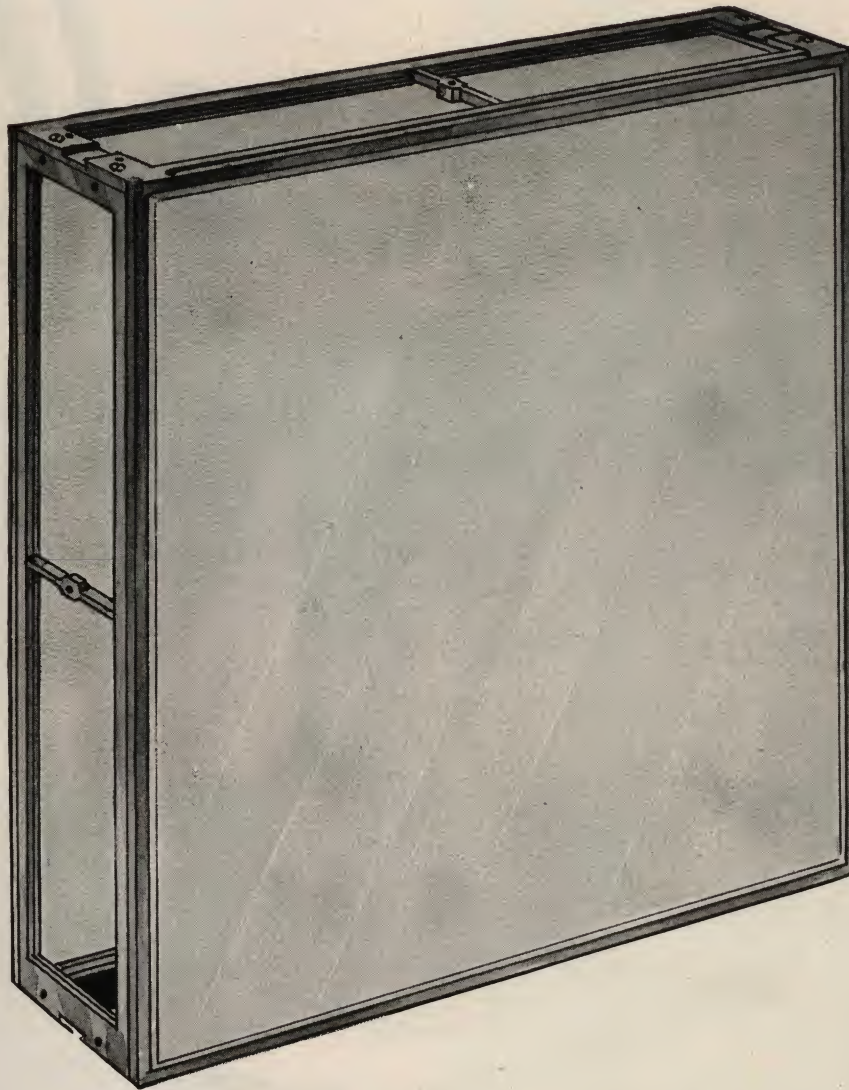
Appleman Art Glass Works

Bergenfield, N. J.

TEMPREX

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GLASS STRUCTURAL BLOCKS



TEMPREX Glass Structural Blocks are self supporting units which are erected without the use of any cementing agent to form wall to wall picture windows, inside walls and partitions. The Block is a composite module unit consisting of a die cast aluminum frame 20" square by 3 $\frac{7}{8}$ " deep and two panes of 7/32" TEMPREX glass 19 $\frac{1}{2}$ " square. One of these panes is permanently sealed in at the factory to provide an air and watertight joint; the other pane is removeable. This feature provides the basis for many decorative as well as practical applications of this versatile product.

Both panes of clear or both of diffusing TEMPREX are standard equipment; also one pane clear in combination with one diffusing. For decorative wall effects there are 4 standard patterns available—Pyramid, Disc, Fret, Mode. Each design is permanently fire-fused in a neutral warm gray tint on an off white opal translucent background; also in mural effects and special color combinations upon request.



TEMPREX GLASS is a product of wartime research and results from a special processing technique of scientifically heat treating glass. This tempering process gives TEMPREX GLASS many important advantages over ordinary glass, such as greater strength and a substantial increase in its resistance to shocks. TEMPREX GLASS is not affected by varying surface tempera-

tures, resisting thermal shock or impact at sub-zero as well as high temperatures. When TEMPREX GLASS does reach its limit of resistance to abnormal thermal shocks or impact it still has a factor of safety which ordinary glass does not possess. It does not break in sharp fragments, but disrupts into small, comparatively blunt edged particles.

TENSILE STRENGTH

Weight Support—Temprex glass will support almost five times as much weight as ordinary glass. The tensile ultimate of Temprex glass is 30,000 lbs. per sq. inch of cross section as against 6,500 lbs. average for ordinary glass. **Fatigue Proof**—Temprex glass can be twisted at an angle in excess of 20 degrees which is an indication of its surprising flexibility and elasticity.

IMPACT RESISTANCE

The tempering process relieves Temprex glass of strain. This results in its being extremely resilient. By comparison Temprex glass has a resistance to impact seven times greater than ordinary glass... for example, Temprex glass will not break if a steel ball is dropped on it from a height of five feet. Ordinary glass will shatter if the same ball is dropped on it from a height of only a few inches.

THERMAL SHOCK

Temprex glass will withstand in excess of five times as much heat as ordinary glass without breakage. It will withstand in excess of 650 degrees F. Therefore, Temprex glass may be considered fire retardant. Tests have proven that 650 degrees F. can be applied to one surface of Temprex glass while the other surface is at normal atmospheric temperature.

Many decorative and practical lighting effects are achieved with

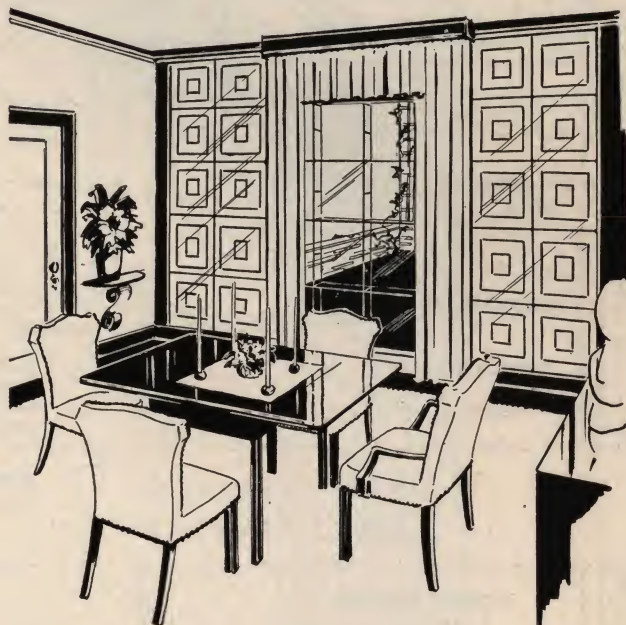
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TEMPREX Structural Block LIVINGWALL used as an outside picture window with decorative objects placed inside the blocks. A practical feature is that windows to open can be set into the outside LIVINGWALL as shown. LIVINGWALL also used as an inside partition between kitchen and breakfast nook. If desired this LIVINGWALL partition may be readily illuminated to light two rooms with the same current.



This dining room interior shows an effective use of patterned LIVINGWALL TEMPREX Structural Blocks in combination with a group of Blocks fitted with clear TEMPREX panes to form a window. At night the patterned section can be illuminated.



TEMPREX Structural Block LIVINGWALL is ideal for construction of office partitions by virtue of it being assembled "dry", without cement, thus making it removeable. Alterations are easily effected with 100% reclaiming of the original Blocks. Individual Blocks or groups of Blocks may be used in the Walls of corridors for displaying samples of merchandise. Note the attractive TEMPREX glass doors which are a companion unit to the TEMPREX Blocks.



For construction of a storefront the TEMPREX Structural Blocks find many useful applications. Individual blocks make small distinctive display windows and groups of Blocks can make an entire LIVINGWALL display front. The Block may also have firm name or business permanently fired into the inner or outer panel as illustrated.

Appleman Art Glass Works

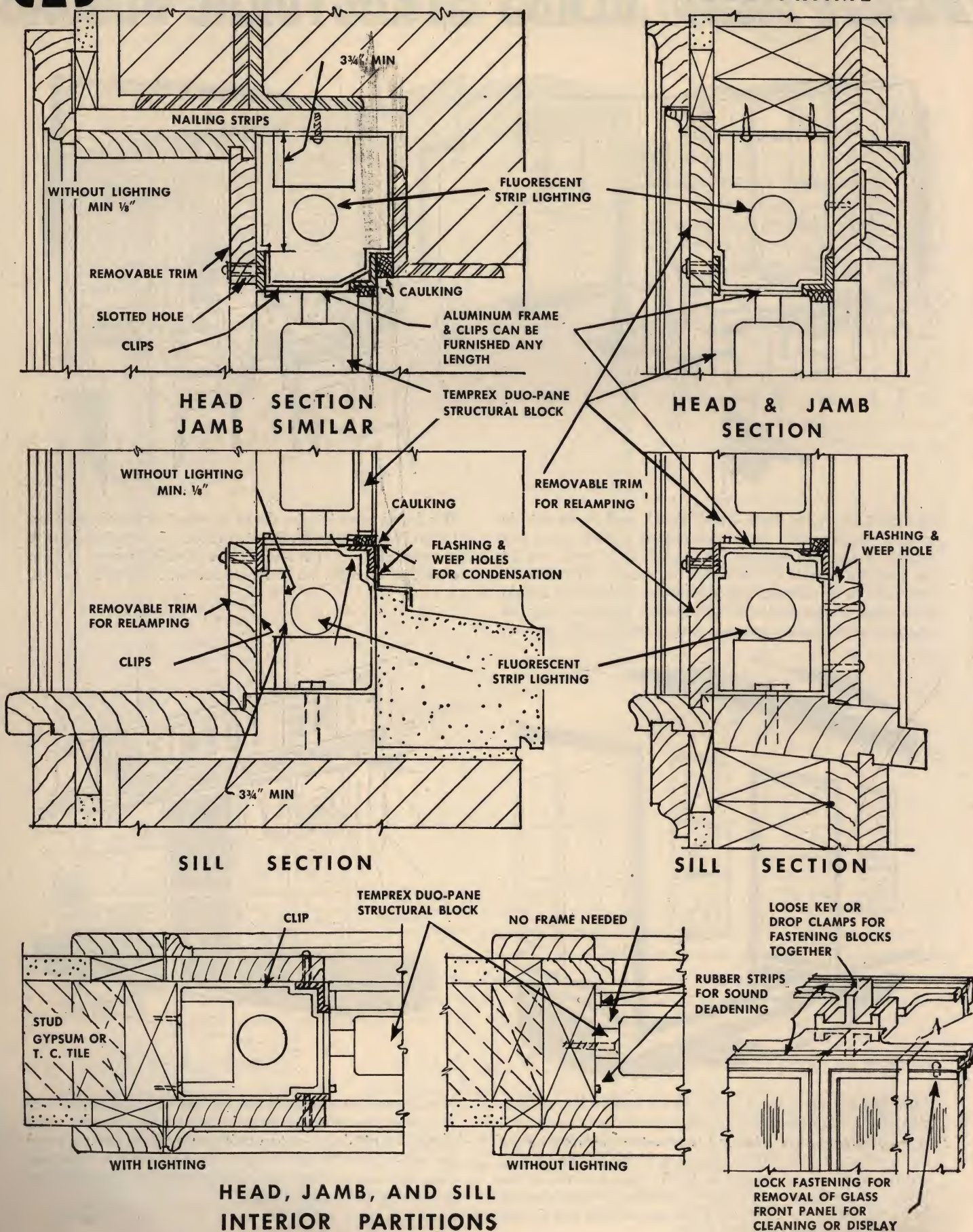


GLASS STRUCTURAL BLOCKS • HEAD, JAMB, AND SILL DETAILS

SCALE 3" = 1'-0"

MASONRY WALLS

WOOD FRAME



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